A2LD1 cDNA Clone – AIG2-Like Domain 1 (Human)

PRODUCT OVERVIEW

Product Name	A2LD1, cDNA Clone
Full Product Name	A2LD1 cDNA Clone
Product Gene Name	A2LD1 cdna clone
Sequence	atggccctag tcttcgtgta cggcaccctg aagcggggtc agcccaacca cagggtcctg cgggacggcg cccacggctc cgcagccttt cgggcgcgcg gccgcacgct ggagccctac ccgttggtga tcgcgggggа gcacaacatc ccgtggctgc tgcacctgcc cggctcgggg cgcctcgtgg agggcgaggt ctacgcggta gacgagcgga tgctgcgctt tctggatgac ttcgagagtt gcccggccct gtaccagcgc acggtgctgc gggtacagct gctggaggac cgggccccgg gcgcagagga gccgccagcg cccaccgcgg tgcagtgctt cgtgtacagc agggccacct tcccgccgga gtgggcccag ctcccgcacc atgacagcta cgactccgag gggccgcacg ggctgcgcta caacccccgg gagaacagat aa
Molecular Weight	17,329 Da
OMIM	613378
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for A2LD1 cdna clone	MBS1278394 is a cDNA clone targeting A2LD1.
Other Notes	Small volumes of A2LD1 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for A2LD1. It may not necessarily be applicable to this product.

NCBI GI #	33875959
NCBI GeneID	87769
NCBI Accession #	BC001077
UniProt Secondary Accession #	Q9BT41; B3KTN1
UniProt Related Accession #	Q9BVM4
NCBI Official Full Name	Homo sapiens AIG2-like domain 1, mRNA
NCBI Official Synonym Full Names	gamma-glutamylamine cyclotransferase
NCBI Official Symbol	GGACT
NCBI Official Synonym Symbols	A2LD1
UniProt Protein Name	Gamma-glutamylaminecyclotransferase
UniProt Synonym Protein Names	AIG2-like domain-containing protein 1; Gamma-glutamylamine cyclotransferase
UniProt Gene Name	GGACT
UniProt Synonym Gene Names	A2LD1; GGACT
UniProt Entry Name	GGACT_HUMAN
NCBI Protein Information	gamma-glutamylaminecyclotransferase

NCBI Summary for A2LD1	The protein encoded by this gene aids in the proteolytic degradation of crosslinked fibrin by breaking down isodipeptide L-gamma-glutamyl-L-epsilon-lysine, a byproduct of fibrin degradation. The reaction catalyzed by the encoded gamma-glutamylaminecyclotransferase produces 5-oxo-L-proline and a free alkylamine. Two transcript variants encoding the same protein have been found for this gene.[provided by RefSeq, Aug 2010]
UniProt Comments for A2LD1	A2LD1: Contributes to degradation of proteins cross-linked by transglutaminases. Degrades the cross-link between a lysine and a glutamic acid residue from two proteins that have been cross- linked by transglutaminases. Catalyzes the formation of 5- oxoproline from L-gamma-glutamyl-L-epsilon-lysine. Inactive with L-gamma-glutamyl-alpha-amino acid substrates such as L-gamma- glutamyl-L-alpha-cysteine and L-gamma-glutamyl-L-alpha-alanine. Belongs to the gamma-glutamylcyclotransferase family. Protein type: EC 2.3.2.4; Transferase Chromosomal Location of Human Ortholog: 13q32.3 Molecular Function: gamma-glutamylcyclotransferase activity; protein binding Biological Process: amino acid derivative catabolic process
Research Articles on A2LD1	**1.** gamma-glutamylamine cyclotransferase is an enzyme responsible for gamma-glutamyl-epsilon-lysine catabolism
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